

MULTI-MARKER ELECTROPHORESIS

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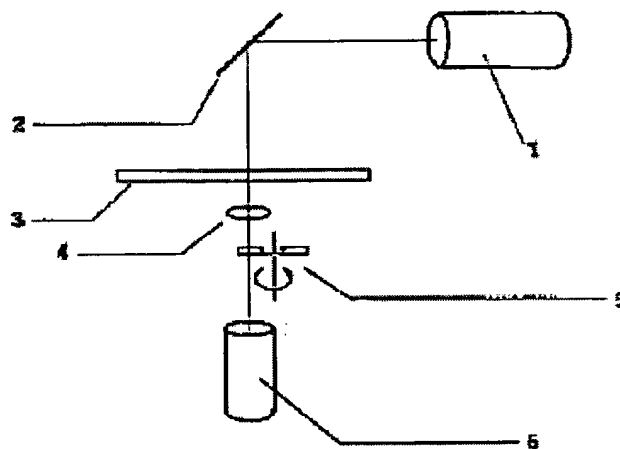
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Abstract of JP5322770

PURPOSE: To compare and identify a reference sample and a test sample with high precision by concurrently applying electrophoresis on the same gel.

CONSTITUTION: Markers are given to a reference sample and a test sample with fluorescent materials having different inherent excitation frequencies or fluorescence wavelengths or luminescent materials having different luminescence wavelengths.

Electrophoresis is concurrently applied to the reference sample and the test sample on the same gel after both samples are mixed, the fluorescent material or the luminescent material marked with the reference sample and the test sample is detected from the obtained bands, and both samples are compared and identified. The light emitted from an argon laser 1 is bent by a mirror 2 and radiated to an electrophoresis plate 3, and a laser beam is scanned on the electrophoresis plate 3. Electrophoresis is made on the electrophoresis plate 3, and bands of the reference sample and the test sample separated by electrophoresis exist on the electrophoresis plate 3. The fluorescence emitted from individual fluorescent materials is condensed by a lens 4 and enters an interference filter unit 5. The unit 5 rotates the filters having different wavelengths with a motor. The fluorescence passing through the filter is fed to a photomultiplier 6 and detected.



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